### Columbia/Snake Rivers



Temperature TMDL

U.S. EPA Region 10

## Geographic Scope



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#### Effects on River Users

- Dams are allowed essentially no increase over natural temperature:
- Point Sources with individual permits are generally allowed their existing discharges.
- Point sources with general permits are allowed their existing discharges.

#### Effects on River Users

• Some future growth is allowed via the group allocations.

• NPS will be addressed in the individual tributary TMDLs as they are developed.

#### Dams VS Point Sources

• Why no allocation for dams and full allocations for point sources?

- Dams have much greater impacts on temperature than the point sources;
- Limiting the point sources would not benefit the dams.

• Varies with the effect of the dams on temperature.

• Three fairly distinct groups of dams.

Dams that clearly increase temperature by more than a degree Centigrade:

Grand Coulee John Day

Lower Granite Little Goose

Lower Monumental Ice Harbor

Dams with highly variable impacts up to a degree Centigrade:

Chief Joseph

Wanapum

Dams with highly variable impacts from no impact to 1/2 a degree Centigrade:

Wells Rocky Reach

Rock Island Priest Rapids

McNary The Dalles

Bonneville

• quantify the temperature problem;

• define the target temperatures;

• determine the level of improvement needed.

- The TMDL establishes the temperature allocations along the river.
- It does not mandate that dams be removed or any other actions taken.
- The TMDL implementation plan will determine if there are feasible measures to achieve the TMDL.

 If there are not feasible measures through operation, maintenance or possible modifications to the dam that will achieve the TMDL, the water quality standards can be amended by the state to reflect the improvement that can be attained.

•The remainder of the impairment resulting from the dam would then be included in the TMDL as background allocation due to the existence of the dam.

### Concerns Expressed

- Dams should be included in the TMDL as background;
- TMDL makes federal dam operators vulnerable to law suits;
- TMDL ignores uses of the river other than fish uses;

## Concerns Expressed

- The Water Quality Standards of the 3 states and 2 tribes with jurisdiction are too complex;
- The Water Quality Standards are extreme and cannot be met.
- The data and modeling are insufficient;

## TMDL Development Process

#### TMDL Policy Committee

- •EPA, NMFS, ID, OR, WA, Tribes
- Meets monthly
- •Federal Dam Operators and PUDs often attend

#### TMDL Technical Team

EPA, ID, OR, WA and Tribes

Meets as needed

#### Public Involvement

- •Ten Public Workshops to share information and receive feed back;
- •Monthly updates at the NMFS Water Quality Team Meetings;
- •TMDL Web Page;
- •Six Fact Sheets

#### Public Involvement

- •Numerous Individual Meetings with Interest Groups
  - •Federal Columbia River Power System;
  - Public Utility Districts;
  - Pulp and Paper Industry
  - Irrigation Districts
  - Watershed Council
  - Congressional Delegations

#### For More Information

Region 10 Web Page:

www.epa.gov/r10earth/index.htm

Columbia/Snake Rivers TMDL Web Page:

www.epa.gov/r10earth/columbiamainstemtmdl.htm